

Version: May2011
Contract/Lab: All Laboratories
Species: RATS
Strain: F 344/N
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date: 05/18/2011

Study Summary

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
Male							
Battelle Columbus Laboratory	059903103	03/23/05	727	50(3)	38(706)	512.7	Ginkgo biloba extract
Battelle Columbus Laboratory	058810503	04/22/02	729	50(3)	35(702)	521.9	Isoeugenol
Battelle Columbus Laboratory	052000705	08/18/04	727	49(3)	34(692)	515.2	Kava kava extract
Battelle Columbus Laboratory	059902303	03/25/02	729	50(3)	29(683)	501.9	beta-Myrcene
Battelle Columbus Laboratory	052010703	10/20/04	727	50(3)	37(702)	503.5	N,N-Dimethyl-p-toluidine
Battelle Columbus Laboratory	059902005	04/09/03	727	50(3)	39(685)	514.9	Pulegone
Female							
Battelle Columbus Laboratory	059903103	03/24/05	728	50(5)	37(700)	350.7	Ginkgo biloba extract
Battelle Columbus Laboratory	058810503	04/23/02	730	50(5)	33(699)	339.3	Isoeugenol
Battelle Columbus Laboratory	052000705	08/19/04	728	50(5)	34(683)	354.3	Kava kava extract
Battelle Columbus Laboratory	059902303	03/26/02	730	50(5)	31(668)	323.8	beta-Myrcene
Battelle Columbus Laboratory	052010703	10/21/04	728	50(5)	33(704)	354.1	N,N-Dimethyl-p-toluidine
Battelle Columbus Laboratory	059902005	04/10/03	728	50(5)	31(682)	341.2	Pulegone

NOTE: The text on page 2 ("Report Description") describes how the studies listed here are displayed on the data pages that follow.

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Male					Female				
#All Organs:									
Benign Tumors									
		50/50 (100%)	49/50 (98%)	49/49 (100%)		47/50 (94%)	41/50 (82%)	43/50 (86%)	
		49/50 (98%)	48/50 (96%)	47/50 (94%)		40/50 (80%)	46/50 (92%)	42/50 (84%)	
Overall Incidence	Total	292/299 (97.66%)	Mean 97.67%	SD 2.34%	Total	259/300 (86.33%)	Mean 86.33%	SD 5.57%	
#All Organs:									
Malignant Tumors									
		13/50 (26%)	29/50 (58%)	17/49 (35%)		12/50 (24%)	18/50 (36%)	11/50 (22%)	
		23/50 (46%)	20/50 (40%)	10/50 (20%)		11/50 (22%)	23/50 (46%)	8/50 (16%)	
Overall Incidence	Total	112/299 (37.46%)	Mean 37.45%	SD 13.75%	Total	83/300 (27.67%)	Mean 27.67%	SD 11.13%	
#All Organs:									
Malignant and Benign Tumors									
		50/50 (100%)	50/50 (100%)	49/49 (100%)		49/50 (98%)	46/50 (92%)	46/50 (92%)	
		50/50 (100%)	49/50 (98%)	47/50 (94%)		45/50 (90%)	49/50 (98%)	44/50 (88%)	
Overall Incidence	Total	295/299 (98.66%)	Mean 98.67%	SD 2.42%	Total	279/300 (93%)	Mean 93%	SD 4.15%	
#All Organs:									
Hemangioma									
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%	
#All Organs:									
Hemangiosarcoma									
		0/50 (0%)	1/50 (2%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	2/50 (4%)	
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	2/300 (0.67%)	Mean 0.67%	SD 1.63%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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		Male				Female					
#All Organs:											
Hemangiosarcoma or Hemangioma											
		0/50 (0%)	1/50 (2%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		0/50 (0%)	1/50 (2%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	2/50 (4%)			
Overall Incidence	Total	2/299 (0.67%)	Mean 0.67%	SD 1.03%		Total	3/300 (1%)	Mean 1%	SD 1.67%		
.....											
#All Organs:											
Histiocytic Sarcoma											
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%		Total	0/300 (0%)	Mean 0%	SD 0%		
.....											
#All Organs:											
Leukemia: Erythrocytic											
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%		Total	0/300 (0%)	Mean 0%	SD 0%		
.....											
#All Organs:											
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated											
		9/50 (18%)	10/50 (20%)	7/49 (14%)		8/50 (16%)	8/50 (16%)	5/50 (10%)			
		9/50 (18%)	14/50 (28%)	4/50 (8%)		5/50 (10%)	15/50 (30%)	4/50 (8%)			
Overall Incidence	Total	53/299 (17.73%)	Mean 17.71%	SD 6.59%		Total	45/300 (15%)	Mean 15%	SD 8.07%		
.....											
#All Organs:											
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type											
		0/50 (0%)	0/50 (0%)	1/49 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)			
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	2/299 (0.67%)	Mean 0.67%	SD 1.04%		Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%		

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

		Male						Female						
#All Organs:														
Mesothelioma: Benign														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#All Organs:														
Mesothelioma: Benign, Malignant, NOS														
		3/50	(6%)	3/50	(6%)	3/49	(6%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		2/50	(4%)	1/50	(2%)	2/50	(4%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	
Overall Incidence	Total	14/299	(4.68%)	Mean	4.69%	SD	1.65%	Total	2/300	(0.67%)	Mean	0.67%	SD	1.03%
#All Organs:														
Mesothelioma: Malignant														
		3/50	(6%)	3/50	(6%)	3/49	(6%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		2/50	(4%)	1/50	(2%)	2/50	(4%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	
Overall Incidence	Total	14/299	(4.68%)	Mean	4.69%	SD	1.65%	Total	2/300	(0.67%)	Mean	0.67%	SD	1.03%
#All Organs:														
Osteoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#All Organs:														
Osteosarcoma														
		0/50	(0%)	2/50	(4%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	5/299	(1.67%)	Mean	1.67%	SD	1.51%	Total	0/300	(0%)	Mean	0%	SD	0%

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

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		Male				Female					
#All Organs:											
Osteosarcoma or Osteoma											
		0/50 (0%)	2/50 (4%)	1/49 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		1/50 (2%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	5/299 (1.67%)	Mean 1.67%	SD 1.51%	Total	0/300 (0%)	Mean 0%	SD 0%			
#Adrenal Cortex:											
Adenoma											
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		1/50 (2%)	1/50 (2%)	2/50 (4%)		0/50 (0%)	3/50 (6%)	0/50 (0%)			
Overall Incidence	Total	4/299 (1.34%)	Mean 1.33%	SD 1.63%	Total	3/300 (1%)	Mean 1%	SD 2.45%			
#Adrenal Cortex:											
Carcinoma											
		0/50 (0%)	0/50 (0%)	1/49 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	1/299 (0.33%)	Mean 0.34%	SD 0.83%	Total	0/300 (0%)	Mean 0%	SD 0%			
#Adrenal Medulla:											
Ganglioneuroma											
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	0/300 (0%)	Mean 0%	SD 0%			
#Adrenal Medulla:											
Hemangioma											
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%			

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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 Tumor Incidence for Selected Control Animal Groups
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		Male				Female					
*Adrenal Medulla:											
Pheochromocytoma Benign											
		11/50 (22%)	5/50 (10%)	5/49 (10%)		2/50 (4%)	2/50 (4%)	3/50 (6%)			
		11/50 (22%)	6/50 (12%)	8/50 (16%)		1/50 (2%)	2/50 (4%)	3/50 (6%)			
Overall Incidence	Total	46/299 (15.38%)	Mean 15.37%	SD 5.57%	Total	13/300 (4.33%)	Mean 4.33%	SD 1.51%			
*Adrenal Medulla:											
Pheochromocytoma Complex											
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	0/300 (0%)	Mean 0%	SD 0%			
*Adrenal Medulla:											
Pheochromocytoma Malignant											
		2/50 (4%)	3/50 (6%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		2/50 (4%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	8/299 (2.68%)	Mean 2.67%	SD 2.42%	Total	0/300 (0%)	Mean 0%	SD 0%			
*Adrenal Medulla:											
Pheochromocytoma: Benign, Complex, Malignant, NOS											
		12/50 (24%)	7/50 (14%)	5/49 (10%)		2/50 (4%)	2/50 (4%)	3/50 (6%)			
		13/50 (26%)	8/50 (16%)	8/50 (16%)		1/50 (2%)	2/50 (4%)	3/50 (6%)			
Overall Incidence	Total	53/299 (17.73%)	Mean 17.7%	SD 6.07%	Total	13/300 (4.33%)	Mean 4.33%	SD 1.51%			
#Bone:											
Chordoma											
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	0/300 (0%)	Mean 0%	SD 0%			

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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		Male						Female						
#Bone:														
Osteoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total	0/300 (0%)		Mean	0%	SD	0%
.....														
#Bone:														
Osteosarcoma														
		0/50	(0%)	2/50	(4%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	5/299 (1.67%)		Mean	1.67%	SD	1.51%	Total	0/300 (0%)		Mean	0%	SD	0%
.....														
#Bone:														
Osteosarcoma or Osteoma														
		0/50	(0%)	2/50	(4%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	5/299 (1.67%)		Mean	1.67%	SD	1.51%	Total	0/300 (0%)		Mean	0%	SD	0%
.....														
*Brain:														
Astrocytoma Malignant														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	1/299 (0.33%)		Mean	0.33%	SD	0.82%	Total	0/300 (0%)		Mean	0%	SD	0%
.....														
*Brain:														
Ependymoma Benign														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	1/299 (0.33%)		Mean	0.33%	SD	0.82%	Total	0/300 (0%)		Mean	0%	SD	0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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		Male						Female						
*Brain: Ependymoma Malignant														
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%

*Brain: Glioma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%

*Brain: Glioma Benign														
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%

*Brain: Glioma Malignant														
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%

*Brain: Granular Cell Tumor Benign														
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Length of Study: CHRONIC

Vehicle: CORN OIL

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Male														Female					
*Brain: Oligodendroglioma Benign																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/299 (0.33%)		Mean 0.33%		SD 0.82%		Total		0/300 (0%)		Mean 0%		SD 0%					
*Brain: Oligodendroglioma Malignant																			
		0/50	(0%)	1/50	(2%)	0/49	(0%)			0/50	(0%)	1/50	(2%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	1/299 (0.33%)		Mean 0.33%		SD 0.82%		Total		1/300 (0.33%)		Mean 0.33%		SD 0.82%					
*Brain: Oligodendroglioma, Glioma, or Astrocytoma																			
		0/50	(0%)	1/50	(2%)	0/49	(0%)			0/50	(0%)	1/50	(2%)	0/50	(0%)				
		1/50	(2%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	3/299 (1%)		Mean 1%		SD 1.1%		Total		1/300 (0.33%)		Mean 0.33%		SD 0.82%					
*Brain: Osteosarcoma																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/299 (0%)		Mean 0%		SD 0%		Total		0/300 (0%)		Mean 0%		SD 0%					
*Brain: Schwannoma Malignant																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/299 (0%)		Mean 0%		SD 0%		Total		0/300 (0%)		Mean 0%		SD 0%					

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date: 05/18/2011

		Male				Female					
*Clitoral/Preputial Gland: Adenoma											
		4/50 (8%)	2/50 (4%)	0/49 (0%)		5/50 (10%)	3/48 (6%)	2/50 (4%)			
		5/50 (10%)	0/50 (0%)	3/50 (6%)		7/50 (14%)	5/50 (10%)	3/50 (6%)			
Overall Incidence	Total	14/299 (4.68%)	Mean 4.67%	SD 4.13%		Total	25/298 (8.39%)	Mean 8.38%	SD 3.64%		
*Clitoral/Preputial Gland: Carcinoma											
		0/50 (0%)	2/50 (4%)	1/49 (2%)		0/50 (0%)	2/48 (4%)	2/50 (4%)			
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	4/299 (1.34%)	Mean 1.34%	SD 1.64%		Total	4/298 (1.34%)	Mean 1.36%	SD 2.11%		
*Clitoral/Preputial Gland: Carcinoma or Adenoma											
		4/50 (8%)	4/50 (8%)	1/49 (2%)		5/50 (10%)	5/48 (10%)	4/50 (8%)			
		5/50 (10%)	0/50 (0%)	4/50 (8%)		7/50 (14%)	5/50 (10%)	3/50 (6%)			
Overall Incidence	Total	18/299 (6.02%)	Mean 6.01%	SD 3.99%		Total	29/298 (9.73%)	Mean 9.74%	SD 2.67%		
*Clitoral/Preputial Gland: Sarcoma											
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/48 (0%)	0/50 (0%)			
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%		Total	0/298 (0%)	Mean 0%	SD 0%		
#Ear: Neural Crest Tumor											
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)			
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)			
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%		Total	2/300 (0.67%)	Mean 0.67%	SD 1.03%		

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date: 05/18/2011

		Male						Female						
#Esophagus:														
Lipoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#Eye:														
Melanoma Benign														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%
#Eye:														
Melanoma Malignant														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#Eye:														
Schwannoma Malignant														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#Harderian Gland:														
Adenoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
Contract/Lab: All Laboratories
Species: RATS
Strain: F 344/N
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date: 05/18/2011

		Male						Female						
#Harderian Gland: Carcinoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														
#Harderian Gland: Carcinoma or Adenoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														
*Heart: Schwannoma Benign														
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%
.....														
*Heart: Schwannoma Malignant														
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														
#Intestine Large: Colon/Rectum: Adenoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
Contract/Lab: All Laboratories
Species: RATS
Strain: F 344/N
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date: 05/18/2011

		Male						Female						
#Intestine Large: Colon/Rectum: Carcinoma or Adenoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#Intestine Large: Colon/Rectum: Hemangioma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#Intestine Small: Duodenum: Carcinoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#Intestine Small: Duodenum: Leiomyoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#Intestine Small: Duodenum: Schwannoma Malignant														
		0/50	(0%)	0/50	(0%)	0/49	(0%)		1/50	(2%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2011
Contract/Lab: All Laboratories
Species: RATS
Strain: F 344/N
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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		Male						Female						
#Intestine Small: Ileum: Adenoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total	0/300 (0%)		Mean	0%	SD	0%
.....														
#Intestine Small: Jejunum: Carcinoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total	0/300 (0%)		Mean	0%	SD	0%
.....														
#Intestine Small: Jejunum: Granular Cell Tumor Malignant														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total	0/300 (0%)		Mean	0%	SD	0%
.....														
#Intestine Small: Jejunum: Leiomyoma														
		1/50	(2%)	1/50	(2%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	2/299 (0.67%)		Mean	0.67%	SD	1.03%	Total	0/300 (0%)		Mean	0%	SD	0%
.....														
#Intestine Small: Jejunum: Leiomyosarcoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total	1/300 (0.33%)		Mean	0.33%	SD	0.82%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

		Male						Female						
#Intestine Small: Site Unspecified: Adenoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#Intestine Small: Site Unspecified: Carcinoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#Intestine Small: Site Unspecified: Carcinoma or Adenoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#Intestine Small: Site Unspecified: Granular Cell Tumor Malignant														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#Intestine Small: Site Unspecified: Leiomyoma														
		1/50	(2%)	1/50	(2%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	2/299	(0.67%)	Mean	0.67%	SD	1.03%	Total	0/300	(0%)	Mean	0%	SD	0%

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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		Male						Female						
#Intestine Small: Site Unspecified: Leiomyosarcoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%
#Intestine Small: Site Unspecified: Schwannoma Malignant														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%
*Islets, Pancreatic: Adenoma														
		4/50	(8%)	4/50	(8%)	4/49	(8%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	
		2/50	(4%)	2/50	(4%)	2/50	(4%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	
Overall Incidence	Total	18/299	(6.02%)	Mean	6.03%	SD	2.22%	Total	4/300	(1.33%)	Mean	1.33%	SD	1.03%
*Islets, Pancreatic: Carcinoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	2/299	(0.67%)	Mean	0.67%	SD	1.03%	Total	0/300	(0%)	Mean	0%	SD	0%
*Islets, Pancreatic: Carcinoma or Adenoma														
		4/50	(8%)	4/50	(8%)	4/49	(8%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	
		3/50	(6%)	3/50	(6%)	2/50	(4%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	
Overall Incidence	Total	20/299	(6.69%)	Mean	6.69%	SD	1.66%	Total	4/300	(1.33%)	Mean	1.33%	SD	1.03%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Length of Study: CHRONIC

Vehicle: CORN OIL

Report Date: 05/18/2011

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date: 05/18/2011

		Male						Female					
*Kidney: Renal Tubule: Carcinoma or Adenoma													
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/50	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/299 (0.67%)		Mean 0.67%		SD 1.03%		Total	0/300 (0%)		Mean 0%		SD 0%

*Kidney: Renal Tubule: Hemangiosarcoma													
		0/50	(0%)	1/50	(2%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/299 (0.33%)		Mean 0.33%		SD 0.82%		Total	0/300 (0%)		Mean 0%		SD 0%

*Kidney: Renal Tubule: Lipoma													
		1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/299 (0.67%)		Mean 0.67%		SD 1.03%		Total	0/300 (0%)		Mean 0%		SD 0%

*Kidney: Renal Tubule: Mesenchymal Tumor Benign													
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%)		Mean 0%		SD 0%		Total	0/300 (0%)		Mean 0%		SD 0%

*Kidney: Renal Tubule: Mesenchymal Tumor Malignant													
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%)		Mean 0%		SD 0%		Total	0/300 (0%)		Mean 0%		SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date: 05/18/2011

Male												Female			
*Kidney: Renal Tubule: Nephroblastoma															
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total		1/300 (0.33%)		Mean	0.33%	SD	0.82%
.....															
*Kidney: Renal Tubule: Sarcoma															
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total		0/300 (0%)		Mean	0%	SD	0%
.....															
*Liver: Cholangioma															
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total		0/300 (0%)		Mean	0%	SD	0%
.....															
*Liver: Hemangiosarcoma															
		0/50	(0%)	1/50	(2%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/299 (0.33%)		Mean	0.33%	SD	0.82%	Total		0/300 (0%)		Mean	0%	SD	0%
.....															
*Liver: Hepatocellular Adenoma															
		0/50	(0%)	1/50	(2%)	1/49	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	3/299 (1%)		Mean	1.01%	SD	1.1%	Total		1/300 (0.33%)		Mean	0.33%	SD	0.82%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
Contract/Lab: All Laboratories
Species: RATS
Strain: F 344/N
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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		Male						Female						
*Liver:														
Hepatocellular Carcinoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														
*Liver:														
Hepatocellular Carcinoma or Hepatoblastoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														
*Liver:														
Hepatocellular Carcinoma or Hepatocellular Adenoma														
		0/50	(0%)	1/50	(2%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	
Overall Incidence	Total	3/299	(1%)	Mean	1.01%	SD	1.1%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%
.....														
*Liver:														
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma														
		0/50	(0%)	1/50	(2%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	
Overall Incidence	Total	3/299	(1%)	Mean	1.01%	SD	1.1%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%
.....														
*Liver:														
Ito Cell Tumor Benign														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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		Male				Female					
*Lung:											
Alveolar/Bronchiolar Adenoma											
		1/50 (2%)	3/50 (6%)	2/49 (4%)		4/50 (8%)	1/50 (2%)	0/50 (0%)			
		3/50 (6%)	0/50 (0%)	0/50 (0%)		4/50 (8%)	1/50 (2%)	2/50 (4%)			
Overall Incidence	Total	9/299 (3.01%)	Mean 3.01%	SD 2.76%	Total	12/300 (4%)	Mean 4%	SD 3.35%			
<hr/>											
*Lung:											
Alveolar/Bronchiolar Carcinoma											
		0/50 (0%)	1/50 (2%)	1/49 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	3/299 (1%)	Mean 1.01%	SD 1.1%	Total	0/300 (0%)	Mean 0%	SD 0%			
<hr/>											
*Lung:											
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma											
		1/50 (2%)	4/50 (8%)	2/49 (4%)		4/50 (8%)	1/50 (2%)	0/50 (0%)			
		3/50 (6%)	0/50 (0%)	1/50 (2%)		4/50 (8%)	1/50 (2%)	2/50 (4%)			
Overall Incidence	Total	11/299 (3.68%)	Mean 3.68%	SD 2.95%	Total	12/300 (4%)	Mean 4%	SD 3.35%			
<hr/>											
*Lung:											
Fibrosarcoma											
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)			
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%			
<hr/>											
*Lung:											
Hemangiosarcoma											
		0/50 (0%)	1/50 (2%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	0/300 (0%)	Mean 0%	SD 0%			

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011

Contract/Lab: All Laboratories

Species: RATS

Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE

Vehicle: CORN OIL

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Report Date: 05/18/2011

Male														Female					
*Lung: Squamous Cell Carcinoma																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total	1/300 (0.33%)		Mean	0.33%	SD	0.82%					

#Lymph Node: Hemangiosarcoma																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total	0/300 (0%)		Mean	0%	SD	0%					

#Mammary Gland: Adenolipoma																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	1/50	(2%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total	1/300 (0.33%)		Mean	0.33%	SD	0.82%					

#Mammary Gland: Adenoma																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	2/50	(4%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	2/50	(4%)				
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total	4/300 (1.33%)		Mean	1.33%	SD	2.07%					

#Mammary Gland: Carcinoma																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	4/50	(8%)	1/50	(2%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	1/50	(2%)	0/50	(0%)				
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total	6/300 (2%)		Mean	2%	SD	3.1%					

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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		Male						Female						
#Mammary Gland: Carcinoma or Adenoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	4/50	(8%)	3/50	(6%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	2/50	(4%)	
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total	10/300 (3.33%)		Mean	3.33%	SD	3.27%
.....														
#Mammary Gland: Fibroadenoma														
		2/50	(4%)	4/50	(8%)	0/49	(0%)	23/50	(46%)	26/50	(52%)	24/50	(48%)	
		0/50	(0%)	0/50	(0%)	1/50	(2%)	17/50	(34%)	29/50	(58%)	21/50	(42%)	
Overall Incidence	Total	7/299 (2.34%)		Mean	2.33%	SD	3.2%	Total	140/300 (46.67%)		Mean	46.67%	SD	8.26%
.....														
#Mammary Gland: Fibroma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total	0/300 (0%)		Mean	0%	SD	0%
.....														
#Mammary Gland: Fibroma, Fibroadenoma or Adenoma														
		2/50	(4%)	4/50	(8%)	0/49	(0%)	23/50	(46%)	26/50	(52%)	25/50	(50%)	
		0/50	(0%)	0/50	(0%)	1/50	(2%)	17/50	(34%)	29/50	(58%)	22/50	(44%)	
Overall Incidence	Total	7/299 (2.34%)		Mean	2.33%	SD	3.2%	Total	142/300 (47.33%)		Mean	47.33%	SD	8.16%
.....														
#Mammary Gland: Fibroma, Fibroadenoma, Carcinoma, or Adenoma														
		2/50	(4%)	4/50	(8%)	0/49	(0%)	23/50	(46%)	28/50	(56%)	26/50	(52%)	
		0/50	(0%)	0/50	(0%)	1/50	(2%)	17/50	(34%)	30/50	(60%)	22/50	(44%)	
Overall Incidence	Total	7/299 (2.34%)		Mean	2.33%	SD	3.2%	Total	146/300 (48.67%)		Mean	48.67%	SD	9.35%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date: 05/18/2011

		Male						Female						
#Mesentery:														
Fibrous Histiocytoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#Mesentery:														
Hemangiosarcoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#Mesentery:														
Lipoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#Mesentery:														
Schwannoma Malignant														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
*Nose:														
Adenoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/299	(0%)	Mean	0%	SD	0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Length of Study: CHRONIC

Vehicle: CORN OIL

Report Date: 05/18/2011

Male										Female					
*Nose:															
Squamous Cell Carcinoma															
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/299 (0.33%)		Mean	0.33%	SD	0.82%	Total		0/299 (0%)		Mean	0%	SD	0%

#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):															
Papilloma Squamous or Papilloma															
		0/50	(0%)	0/50	(0%)	1/49	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)	0/50	(0%)	0/50	(0%)			1/50	(2%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	2/299 (0.67%)		Mean	0.67%	SD	1.04%	Total		2/300 (0.67%)		Mean	0.67%	SD	1.03%

#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):															
Squamous Cell Carcinoma															
		0/50	(0%)	1/50	(2%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/299 (0.33%)		Mean	0.33%	SD	0.82%	Total		1/300 (0.33%)		Mean	0.33%	SD	0.82%

#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):															
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma															
		0/50	(0%)	1/50	(2%)	1/49	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)	0/50	(0%)	0/50	(0%)			2/50	(4%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	3/299 (1%)		Mean	1.01%	SD	1.1%	Total		3/300 (1%)		Mean	1%	SD	1.67%

#Oral Mucosa:															
Squamous Cell Carcinoma															
		0/50	(0%)	1/50	(2%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)			1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/299 (0.33%)		Mean	0.33%	SD	0.82%	Total		1/300 (0.33%)		Mean	0.33%	SD	0.82%

#: Denominator is number of animals necropsied

Length of Study: CHRONIC

Vehicle: CORN OIL

Report Date: 05/18/2011

Incidence of Ovarian Cancer															
		Male						Female							
#Oral Mucosa:															
Squamous Cell Papilloma															
		0/50	(0%)	0/50	(0%)	1/49	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/299 (0.67%)		Mean 0.67%		SD 1.04%		Total	0/300 (0%)		Mean 0%		SD 0%		

*Ovary:															
Cystadenoma															
										0/50	(0%)	0/50	(0%)	1/50	(2%)
										0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/300 (0.33%)		Mean 0.33%		SD 0.82%									

*Ovary:															
Fibrosarcoma															
										0/50	(0%)	0/50	(0%)	0/50	(0%)
										0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	1/300 (0.33%)		Mean 0.33%		SD 0.82%									

*Ovary:															
Granulosa Cell Tumor Benign															
										0/50	(0%)	0/50	(0%)	0/50	(0%)
										1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/300 (0.33%)		Mean 0.33%		SD 0.82%									

*Ovary:															
Granulosa Cell Tumor Malignant															
										0/50	(0%)	0/50	(0%)	0/50	(0%)
										0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/300 (0%)		Mean 0%		SD 0%									

#: Denominator is number of animals necropsied

Length of Study: CHRONIC

Vehicle: CORN OIL

Report Date: 05/18/2011

		Male		Female			
*Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS							
			0/50 (0%)		0/50 (0%)		0/50 (0%)
			1/50 (2%)		0/50 (0%)		0/50 (0%)
Overall Incidence	Total	1/300 (0.33%)		Mean	0.33%	SD	0.82%
<hr/>							
*Ovary: Granulosa-Theca Tumor Benign							
			0/50 (0%)		0/50 (0%)		0/50 (0%)
			0/50 (0%)		0/50 (0%)		0/50 (0%)
Overall Incidence	Total	0/300 (0%)		Mean	0%	SD	0%
<hr/>							
*Ovary: Granulosa-Theca Tumor Malignant							
			0/50 (0%)		0/50 (0%)		0/50 (0%)
			0/50 (0%)		0/50 (0%)		0/50 (0%)
Overall Incidence	Total	0/300 (0%)		Mean	0%	SD	0%
<hr/>							
*Ovary: Schwannoma Malignant							
			0/50 (0%)		0/50 (0%)		0/50 (0%)
			0/50 (0%)		0/50 (0%)		0/50 (0%)
Overall Incidence	Total	0/300 (0%)		Mean	0%	SD	0%
<hr/>							
*Ovary: Tubulostromal Adenoma							
			1/50 (2%)		0/50 (0%)		0/50 (0%)
			0/50 (0%)		0/50 (0%)		0/50 (0%)
Overall Incidence	Total	1/300 (0.33%)		Mean	0.33%	SD	0.82%

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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		Male						Female						
*Pancreas: Adenoma														
		0/50	(0%)	7/50	(14%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	0/50	(0%)	2/50	(4%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	11/299	(3.68%)	Mean	3.67%	SD	5.28%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														
*Pancreas: Carcinoma														
		0/50	(0%)	1/50	(2%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														
*Pancreas: Carcinoma or Adenoma														
		0/50	(0%)	8/50	(16%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	0/50	(0%)	2/50	(4%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	12/299	(4.01%)	Mean	4.01%	SD	6.06%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														
*Pancreas: Mixed Tumor Benign														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														
*Pancreas: Mixed Tumor Malignant														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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		Male				Female					
*Parathyroid Gland: Adenoma											
		0/47 (0%)	0/47 (0%)	1/49 (2%)		1/38 (3%)	0/47 (0%)	0/44 (0%)			
		1/45 (2%)	0/49 (0%)	1/49 (2%)		0/47 (0%)	0/50 (0%)	2/46 (4%)			
Overall Incidence	Total	3/286 (1.05%)	Mean 1.05%	SD 1.15%		Total	3/272 (1.1%)	Mean 1.16%	SD 1.88%		
.....											
*Pituitary Gland: Pars Distalis or Unspecified Site: Adenoma											
		38/50 (76%)	19/50 (38%)	21/49 (43%)		34/50 (68%)	25/50 (50%)	29/50 (58%)			
		6/50 (12%)	23/50 (46%)	11/50 (22%)		25/50 (50%)	31/50 (62%)	27/50 (54%)			
Overall Incidence	Total	118/299 (39.46%)	Mean 39.48%	SD 22.14%		Total	171/300 (57%)	Mean 57%	SD 7.13%		
.....											
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma											
		0/50 (0%)	0/50 (0%)	0/49 (0%)		2/50 (4%)	0/50 (0%)	1/50 (2%)			
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%		Total	3/300 (1%)	Mean 1%	SD 1.67%		
.....											
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma or Adenoma											
		38/50 (76%)	19/50 (38%)	21/49 (43%)		36/50 (72%)	25/50 (50%)	30/50 (60%)			
		6/50 (12%)	24/50 (48%)	11/50 (22%)		25/50 (50%)	31/50 (62%)	27/50 (54%)			
Overall Incidence	Total	119/299 (39.8%)	Mean 39.81%	SD 22.27%		Total	174/300 (58%)	Mean 58%	SD 8.49%		
.....											
*Pituitary Gland: Pars Distalis or Unspecified Site: Ganglioneuroma											
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%		Total	0/300 (0%)	Mean 0%	SD 0%		

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011

Contract/Lab: All Laboratories

Species: RATS

Strain: F 344/N

Length of Study: CHRONIC

Toxicology Data Management System

Tumor Incidence for Selected Control Animal Groups

Route: GAVAGE

Vehicle: CORN OIL

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		Male						Female						
*Pituitary Gland: Pars Intermedia: Adenoma														
		1/50	(2%)	1/50	(2%)	0/49	(0%)		1/50	(2%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/299 (0.67%)		Mean 0.67%		SD 1.03%		Total	1/300 (0.33%)		Mean 0.33%		SD 0.82%	

*Pituitary Gland: Pars Intermedia: Carcinoma or Adenoma														
		1/50	(2%)	1/50	(2%)	0/49	(0%)		1/50	(2%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/299 (0.67%)		Mean 0.67%		SD 1.03%		Total	1/300 (0.33%)		Mean 0.33%		SD 0.82%	

*Pituitary Gland: Pars Nervosa: Craniopharyngioma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%)		Mean 0%		SD 0%		Total	0/300 (0%)		Mean 0%		SD 0%	

*Prostate: Adenoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)							
		0/50	(0%)	0/50	(0%)	0/50	(0%)							
Overall Incidence	Total	0/299 (0%)		Mean 0%		SD 0%								

*Prostate: Carcinoma or Adenoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)							
		0/50	(0%)	0/50	(0%)	0/50	(0%)							
Overall Incidence	Total	0/299 (0%)		Mean 0%		SD 0%								

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Length of Study: CHRONIC

Vehicle: CORN OIL

Report Date: 05/18/2011

#: Denominator is number of animals necropsied

Version: May2011
Contract/Lab: All Laboratories
Species: RATS
Strain: F 344/N
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

Male								Female							
#Skeletal Muscle:															
Fibrous Histiocytoma															
		0/50	(0%)	0/50	(0%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/299	(0.33%)	Mean	0.34%	SD	0.83%	Total	0/300	(0%)	Mean	0%	SD	0%	
#Skeletal Muscle:															
Hemangiosarcoma															
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%	
#Skeletal Muscle:															
Rhabdomyosarcoma															
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/300	(0%)	Mean	0%	SD	0%	
#Skeletal Muscle:															
Rhabdomyosarcoma or Rhabdomyoma															
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	0/300	(0%)	Mean	0%	SD	0%	
#Skin:															
Basal Cell Adenoma															
		1/50	(2%)	0/50	(0%)	2/49	(4%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)		
Overall Incidence	Total	4/299	(1.34%)	Mean	1.35%	SD	1.66%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date: 05/18/2011

Male							Female							
#Skin:														
Basal Cell Adenoma or Basosquamous Tumor Benign														
		1/50	(2%)	0/50	(0%)	2/49	(4%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/50	(2%)	0/50	(0%)		1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	4/299 (1.34%)		Mean 1.35%		SD 1.66%		Total	1/300 (0.33%)		Mean 0.33%		SD 0.82%	
#Skin:														
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma														
		1/50	(2%)	0/50	(0%)	2/49	(4%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/50	(2%)	0/50	(0%)		1/50	(2%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	4/299 (1.34%)		Mean 1.35%		SD 1.66%		Total	1/300 (0.33%)		Mean 0.33%		SD 0.82%	
#Skin:														
Basal Cell Carcinoma														
		0/50	(0%)	1/50	(2%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	2/299 (0.67%)		Mean 0.67%		SD 1.03%		Total	1/300 (0.33%)		Mean 0.33%		SD 0.82%	
#Skin:														
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)														
		0/50	(0%)	1/50	(2%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	2/299 (0.67%)		Mean 0.67%		SD 1.03%		Total	1/300 (0.33%)		Mean 0.33%		SD 0.82%	
#Skin:														
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma														
		1/50	(2%)	1/50	(2%)	2/49	(4%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)	1/50	(2%)	0/50	(0%)		1/50	(2%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	6/299 (2.01%)		Mean 2.01%		SD 1.29%		Total	2/300 (0.67%)		Mean 0.67%		SD 1.03%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date: 05/18/2011

Male					Female				
#Skin:									
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma									
		2/50 (4%)	8/50 (16%)	2/49 (4%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		3/50 (6%)	4/50 (8%)	3/50 (6%)		1/50 (2%)	2/50 (4%)	1/50 (2%)	
Overall Incidence	Total	22/299 (7.36%)	Mean 7.35%	SD 4.49%	Total	5/300 (1.67%)	Mean 1.67%	SD 1.51%	
#Skin:									
Fibroma									
		1/50 (2%)	5/50 (10%)	7/49 (14%)		1/50 (2%)	0/50 (0%)	1/50 (2%)	
		3/50 (6%)	6/50 (12%)	3/50 (6%)		2/50 (4%)	1/50 (2%)	3/50 (6%)	
Overall Incidence	Total	25/299 (8.36%)	Mean 8.38%	SD 4.53%	Total	8/300 (2.67%)	Mean 2.67%	SD 2.07%	
#Skin:									
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma									
		2/50 (4%)	7/50 (14%)	7/49 (14%)		1/50 (2%)	0/50 (0%)	1/50 (2%)	
		4/50 (8%)	6/50 (12%)	3/50 (6%)		3/50 (6%)	4/50 (8%)	3/50 (6%)	
Overall Incidence	Total	29/299 (9.7%)	Mean 9.71%	SD 4.33%	Total	12/300 (4%)	Mean 4%	SD 3.1%	
#Skin:									
Fibrosarcoma									
		0/50 (0%)	1/50 (2%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	3/50 (6%)	0/50 (0%)	
Overall Incidence	Total	1/299 (0.33%)	Mean 0.33%	SD 0.82%	Total	4/300 (1.33%)	Mean 1.33%	SD 2.42%	
#Skin:									
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma									
		1/50 (2%)	2/50 (4%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	3/50 (6%)	0/50 (0%)	
Overall Incidence	Total	4/299 (1.34%)	Mean 1.33%	SD 1.63%	Total	4/300 (1.33%)	Mean 1.33%	SD 2.42%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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		Male						Female					
#Skin:													
Fibrous Histiocytoma													
		1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/299 (0.33%)		Mean 0.33%		SD 0.82%		Total	0/300 (0%)		Mean 0%		SD 0%
.....													
#Skin:													
Hemangioma													
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%)		Mean 0%		SD 0%		Total	0/300 (0%)		Mean 0%		SD 0%
.....													
#Skin:													
Hemangiosarcoma													
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%)		Mean 0%		SD 0%		Total	0/300 (0%)		Mean 0%		SD 0%
.....													
#Skin:													
Keratoacanthoma													
		2/50	(4%)	7/50	(14%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		2/50	(4%)	3/50	(6%)	3/50	(6%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	17/299 (5.69%)		Mean 5.67%		SD 4.63%		Total	1/300 (0.33%)		Mean 0.33%		SD 0.82%
.....													
#Skin:													
Lipoma													
		0/50	(0%)	2/50	(4%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	3/299 (1%)		Mean 1.01%		SD 1.68%		Total	0/300 (0%)		Mean 0%		SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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		Male						Female					
#Skin:													
Liposarcoma													
		0/50	(0%)	0/50	(0%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	1/299 (0.33%)		Mean 0.34%		SD 0.83%		Total	1/300 (0.33%)		Mean 0.33%		SD 0.82%
.....													
#Skin:													
Neural Crest Tumor													
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%)		Mean 0%		SD 0%		Total	0/300 (0%)		Mean 0%		SD 0%
.....													
#Skin:													
Neural Crest Tumor, Malignant													
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%)		Mean 0%		SD 0%		Total	0/300 (0%)		Mean 0%		SD 0%
.....													
#Skin:													
Neurofibroma or Schwannoma benign													
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%)		Mean 0%		SD 0%		Total	0/300 (0%)		Mean 0%		SD 0%
.....													
#Skin:													
Neurofibrosarcoma or Schwannoma (malignant or NOS)													
		1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	3/50	(6%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	4/299 (1.34%)		Mean 1.33%		SD 2.42%		Total	0/300 (0%)		Mean 0%		SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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		Male						Female					
#Skin:													
Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)													
		1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	3/50	(6%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	4/299 (1.34%)		Mean 1.33%		SD 2.42%		Total	0/300 (0%)		Mean 0%		SD 0%
.....													
#Skin:													
Sarcoma													
		0/50	(0%)	1/50	(2%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/299 (0.67%)		Mean 0.67%		SD 1.03%		Total	0/300 (0%)		Mean 0%		SD 0%
.....													
#Skin:													
Schwannoma Benign													
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%)		Mean 0%		SD 0%		Total	0/300 (0%)		Mean 0%		SD 0%
.....													
#Skin:													
Schwannoma Malignant													
		1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	3/50	(6%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	4/299 (1.34%)		Mean 1.33%		SD 2.42%		Total	0/300 (0%)		Mean 0%		SD 0%
.....													
#Skin:													
Squamous Cell Carcinoma													
		0/50	(0%)	0/50	(0%)	0/49	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%)		Mean 0%		SD 0%		Total	1/300 (0.33%)		Mean 0.33%		SD 0.82%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
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Male					Female				
#Skin:									
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma									
		0/50 (0%)	1/50 (2%)	0/49 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
Overall Incidence	Total	2/299 (0.67%)	Mean 0.67%	SD 1.03%	Total	2/300 (0.67%)	Mean 0.67%	SD 1.03%	
#Skin:									
Squamous Cell Papilloma									
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%	
#Skin:									
Squamous Cell Papilloma or Papilloma									
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%	Total	1/300 (0.33%)	Mean 0.33%	SD 0.82%	
#Skin:									
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma									
		2/50 (4%)	7/50 (14%)	0/49 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		2/50 (4%)	3/50 (6%)	3/50 (6%)		0/50 (0%)	1/50 (2%)	1/50 (2%)	
Overall Incidence	Total	17/299 (5.69%)	Mean 5.67%	SD 4.63%	Total	3/300 (1%)	Mean 1%	SD 1.1%	
#Skin:									
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma									
		2/50 (4%)	7/50 (14%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		2/50 (4%)	3/50 (6%)	3/50 (6%)		0/50 (0%)	1/50 (2%)	1/50 (2%)	
Overall Incidence	Total	17/299 (5.69%)	Mean 5.67%	SD 4.63%	Total	2/300 (0.67%)	Mean 0.67%	SD 1.03%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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		Male						Female						
#Skin:														
Trichoepithelioma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total	0/300 (0%)		Mean	0%	SD	0%
#Skin: Sebaceous Gland:														
Adenoma														
		0/50	(0%)	1/50	(2%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	3/299 (1%)		Mean	1%	SD	1.1%	Total	0/300 (0%)		Mean	0%	SD	0%
#Skin: Sebaceous Gland:														
Carcinoma or Adenoma														
		0/50	(0%)	1/50	(2%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	3/299 (1%)		Mean	1%	SD	1.1%	Total	0/300 (0%)		Mean	0%	SD	0%
#Spinal Cord:														
Astrocytoma Benign														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total	1/300 (0.33%)		Mean	0.33%	SD	0.82%
#Spinal Cord:														
Astrocytoma Malignant														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total	0/300 (0%)		Mean	0%	SD	0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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		Male						Female					
#Spinal Cord: Glioma Malignant													
		0/50	(0%)	0/50	(0%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/299 (0.33%)		Mean 0.34%		SD 0.83%		Total	0/300 (0%)		Mean 0%		SD 0%
.....													
*Spleen: Fibrosarcoma													
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%)		Mean 0%		SD 0%		Total	0/300 (0%)		Mean 0%		SD 0%
.....													
*Spleen: Fibrous Histiocytoma													
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%)		Mean 0%		SD 0%		Total	0/300 (0%)		Mean 0%		SD 0%
.....													
*Spleen: Hemangiosarcoma													
		0/50	(0%)	1/50	(2%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	2/50	(4%)
Overall Incidence	Total	1/299 (0.33%)		Mean 0.33%		SD 0.82%		Total	2/300 (0.67%)		Mean 0.67%		SD 1.63%
.....													
*Spleen: Leiomyosarcoma													
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/299 (0%)		Mean 0%		SD 0%		Total	0/300 (0%)		Mean 0%		SD 0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Length of Study: CHRONIC

Vehicle: CORN OIL

Report Date: 05/18/2011

Male														Female					
*Spleen: Sarcoma																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total		0/300 (0%)		Mean	0%	SD	0%				

#Stomach, Forestomach: Leiomyosarcoma																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total		0/300 (0%)		Mean	0%	SD	0%				

#Stomach, Forestomach: Squamous Cell Carcinoma																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total		0/300 (0%)		Mean	0%	SD	0%				

#Stomach, Forestomach: Squamous Cell Carcinoma or Papilloma Squamous																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	1/50	(2%)				
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total		1/300 (0.33%)		Mean	0.33%	SD	0.82%				

#Stomach, Forestomach: Squamous Cell Papilloma																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	1/50	(2%)				
Overall Incidence	Total	0/299 (0%)		Mean	0%	SD	0%	Total		1/300 (0.33%)		Mean	0.33%	SD	0.82%				

#: Denominator is number of animals necropsied

		Male						Female						
#Stomach, Glandular: Carcinoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#Stomach, Glandular: Carcinoma or Adenoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#Stomach, Glandular: Lipoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
#Stomach, Glandular: Sarcoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%
*Testes: Adenoma														
		37/50	(74%)	46/50	(92%)	37/49	(76%)							
		47/50	(94%)	40/50	(80%)	46/50	(92%)							
Overall Incidence	Total	253/299 (84.62%)		Mean	84.59%	SD	9.1%							

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Length of Study: CHRONIC

Vehicle: CORN OIL

Report Date: 05/18/2011

Male														Female					
*Testes:																			
Hemangioma																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)												
		0/50	(0%)	1/50	(2%)	0/50	(0%)												
Overall Incidence	Total	1/299 (0.33%)		Mean 0.33%		SD 0.82%													

*Thymus:																			
Thymoma Benign																			
		1/47	(2%)	0/47	(0%)	0/48	(0%)	1/50	(2%)	0/47	(0%)	0/50	(0%)						
		0/47	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/47	(0%)	0/50	(0%)						
Overall Incidence	Total	1/289 (0.35%)		Mean 0.35%		SD 0.87%		Total	1/293 (0.34%)		Mean 0.33%		SD 0.82%						

*Thymus:																			
Thymoma Malignant																			
		0/47	(0%)	0/47	(0%)	0/48	(0%)	0/50	(0%)	0/47	(0%)	0/50	(0%)						
		0/47	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/47	(0%)	0/50	(0%)						
Overall Incidence	Total	0/289 (0%)		Mean 0%		SD 0%		Total	0/293 (0%)		Mean 0%		SD 0%						

*Thymus:																			
Thymoma NOS																			
		0/47	(0%)	0/47	(0%)	0/48	(0%)	0/50	(0%)	0/47	(0%)	0/50	(0%)						
		0/47	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/47	(0%)	0/50	(0%)						
Overall Incidence	Total	0/289 (0%)		Mean 0%		SD 0%		Total	0/293 (0%)		Mean 0%		SD 0%						

*Thymus:																			
Thymoma: Benign, Malignant, NOS																			
		1/47	(2%)	0/47	(0%)	0/48	(0%)	1/50	(2%)	0/47	(0%)	0/50	(0%)						
		0/47	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/47	(0%)	0/50	(0%)						
Overall Incidence	Total	1/289 (0.35%)		Mean 0.35%		SD 0.87%		Total	1/293 (0.34%)		Mean 0.33%		SD 0.82%						

#: Denominator is number of animals necropsied

Version: May2011
Contract/Lab: All Laboratories
Species: RATS
Strain: F 344/N
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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		Male				Female			
*Thyroid Gland: C-Cell: Adenoma									
		10/50 (20%)	9/50 (18%)	8/49 (16%)		11/49 (22%)	7/50 (14%)	5/50 (10%)	
		12/50 (24%)	11/50 (22%)	8/50 (16%)		5/50 (10%)	9/49 (18%)	8/50 (16%)	
Overall Incidence	Total	58/299 (19.4%)	Mean 19.39%	SD 3.2%		Total 45/298 (15.1%)	Mean 15.14%	SD 4.87%	
*Thyroid Gland: C-Cell: Carcinoma									
		1/50 (2%)	6/50 (12%)	0/49 (0%)		0/49 (0%)	3/50 (6%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/49 (0%)	0/50 (0%)	
Overall Incidence	Total	7/299 (2.34%)	Mean 2.33%	SD 4.8%		Total 3/298 (1.01%)	Mean 1%	SD 2.45%	
*Thyroid Gland: C-Cell: Carcinoma or Adenoma									
		11/50 (22%)	15/50 (30%)	8/49 (16%)		11/49 (22%)	9/50 (18%)	5/50 (10%)	
		12/50 (24%)	11/50 (22%)	8/50 (16%)		5/50 (10%)	9/49 (18%)	8/50 (16%)	
Overall Incidence	Total	65/299 (21.74%)	Mean 21.72%	SD 5.21%		Total 47/298 (15.77%)	Mean 15.8%	SD 4.96%	
*Thyroid Gland: Follicular Cell: Adenoma									
		2/50 (4%)	1/50 (2%)	1/49 (2%)		1/49 (2%)	0/50 (0%)	1/50 (2%)	
		1/50 (2%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	1/49 (2%)	0/50 (0%)	
Overall Incidence	Total	6/299 (2.01%)	Mean 2.01%	SD 1.27%		Total 3/298 (1.01%)	Mean 1.01%	SD 1.11%	
*Thyroid Gland: Follicular Cell: Carcinoma									
		0/50 (0%)	1/50 (2%)	0/49 (0%)		0/49 (0%)	1/50 (2%)	0/50 (0%)	
		2/50 (4%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/49 (0%)	0/50 (0%)	
Overall Incidence	Total	3/299 (1%)	Mean 1%	SD 1.67%		Total 1/298 (0.34%)	Mean 0.33%	SD 0.82%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date: 05/18/2011

		Male				Female					
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma											
		2/50 (4%)	2/50 (4%)	1/49 (2%)		1/49 (2%)	1/50 (2%)	1/50 (2%)			
		3/50 (6%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	1/49 (2%)	0/50 (0%)			
Overall Incidence	Total	9/299 (3.01%)	Mean 3.01%	SD 2.09%		Total	4/298 (1.34%)	Mean 1.35%	SD 1.04%		
.....											
#Tissue NOS: Paraganglioma											
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%		Total	0/300 (0%)	Mean 0%	SD 0%		
.....											
#Tongue: Squamous Cell Carcinoma											
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%		Total	0/300 (0%)	Mean 0%	SD 0%		
.....											
#Tongue: Squamous Cell Carcinoma or Papilloma Squamous											
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	1/50 (2%)	0/50 (0%)			
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%		Total	2/300 (0.67%)	Mean 0.67%	SD 1.03%		
.....											
#Tongue: Squamous Cell Papilloma											
		0/50 (0%)	0/50 (0%)	0/49 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)			
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	1/50 (2%)	0/50 (0%)			
Overall Incidence	Total	0/299 (0%)	Mean 0%	SD 0%		Total	2/300 (0.67%)	Mean 0.67%	SD 1.03%		

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: May2011
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F 344/N
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

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Report Date: 05/18/2011

		Male						Female						
#Tooth:														
Adamantinoma Malignant														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														
#Tooth:														
Odontoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%
.....														
*Urinary Bladder:														
Carcinoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%
.....														
*Urinary Bladder:														
Carcinoma or Papilloma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
Overall Incidence	Total	1/299	(0.33%)	Mean	0.33%	SD	0.82%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%
.....														
*Urinary Bladder:														
Hemangiosarcoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
Overall Incidence	Total	0/299	(0%)	Mean	0%	SD	0%	Total	0/300	(0%)	Mean	0%	SD	0%

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Length of Study: CHRONIC

Vehicle: CORN OIL

Report Date: 05/18/2011

Overall Incidence													
		Male						Female					
*Urinary Bladder: Papilloma													
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	1/50	(2%)
Overall Incidence	Total	1/299 (0.33%)		Mean 0.33%		SD 0.82%		Total	1/300 (0.33%)		Mean 0.33%		SD 0.82%
.....													
#Uterus: Adenoma													
										0/50	(0%)	0/50	(0%)
										0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/300 (0%)		Mean 0%		SD 0%							
.....													
#Uterus: Carcinoma													
										0/50	(0%)	0/50	(0%)
										1/50	(2%)	0/50	(0%)
Overall Incidence	Total	1/300 (0.33%)		Mean 0.33%		SD 0.82%							
.....													
#Uterus: Deciduoma Benign													
										0/50	(0%)	1/50	(2%)
										0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/300 (0.33%)		Mean 0.33%		SD 0.82%							
.....													
#Uterus: Leiomyosarcoma													
										0/50	(0%)	0/50	(0%)
										0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/300 (0%)		Mean 0%		SD 0%							

#: Denominator is number of animals necropsied

Length of Study: CHRONIC

Vehicle: CORN OIL

Report Date: 05/18/2011

	Male			Female		
#Uterus:						
Polyp Stromal						
		3/50 (6%)		8/50 (16%)		7/50 (14%)
		8/50 (16%)		3/50 (6%)		5/50 (10%)
Overall Incidence	Total	34/300 (11.33%)		Mean 11.33%		SD 4.68%
<hr/>						
#Uterus:						
Sarcoma						
		0/50 (0%)		0/50 (0%)		0/50 (0%)
		0/50 (0%)		0/50 (0%)		0/50 (0%)
Overall Incidence	Total	0/300 (0%)		Mean 0%		SD 0%
<hr/>						
#Uterus:						
Sarcoma Stromal						
		0/50 (0%)		0/50 (0%)		1/50 (2%)
		0/50 (0%)		0/50 (0%)		0/50 (0%)
Overall Incidence	Total	1/300 (0.33%)		Mean 0.33%		SD 0.82%
<hr/>						
#Uterus:						
Sarcoma Stromal or Polyp Stromal						
		3/50 (6%)		8/50 (16%)		7/50 (14%)
		8/50 (16%)		3/50 (6%)		5/50 (10%)
Overall Incidence	Total	34/300 (11.33%)		Mean 11.33%		SD 4.68%
<hr/>						
#Uterus:						
Schwannoma Malignant						
		1/50 (2%)		0/50 (0%)		0/50 (0%)
		0/50 (0%)		0/50 (0%)		0/50 (0%)
Overall Incidence	Total	1/300 (0.33%)		Mean 0.33%		SD 0.82%

#: Denominator is number of animals necropsied

Male						Female					
#Vagina: Polyp											
						0/50	(0%)	1/50	(2%)	0/50	(0%)
						0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence						Total	1/300 (0.33%)	Mean	0.33%	SD	0.82%
#Vagina: Sarcoma											
						0/50	(0%)	0/50	(0%)	0/50	(0%)
						0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence						Total	0/300 (0%)	Mean	0%	SD	0%
#Vagina: Schwannoma Malignant											
						0/50	(0%)	0/50	(0%)	0/50	(0%)
						0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence						Total	1/300 (0.33%)	Mean	0.33%	SD	0.82%
#Zymbal's Gland: Adenoma											
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence		Total	0/299 (0%)	Mean	0%	SD	0%	Total	0/300 (0%)	Mean	0%
									SD	0%	
#Zymbal's Gland: Carcinoma											
		1/50	(2%)	2/50	(4%)	0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence		Total	3/299 (1%)	Mean	1%	SD	1.67%	Total	1/300 (0.33%)	Mean	0.33%
									SD	0.82%	

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2011
Contract/Lab: All Laboratories
Species: RATS
Strain: F 344/N
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: GAVAGE
Vehicle: CORN OIL

Male										Female				
#Zymbal's Gland:														
Carcinoma or Adenoma														
		1/50	(2%)	2/50	(4%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	3/299	(1%)	Mean	1%	SD	1.67%	Total	1/300	(0.33%)	Mean	0.33%	SD	0.82%

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied